

Work Order ID 109683

\*109683\*

Page 1

November-25-13 1:00:30 PM

Item ID: D205-523-013

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Heli-Rappel 500 lbs

Start Date: 11/25/13 Start Qty: 3.00

\*3\*

Cust Item ID:

Required Date: 11/26/13 Req'd Qty: 3.00

\*3\*

Customer:

Reference:

Approvals:

Process Plan

Date:

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

DSI9301

Rev A

JB

0.00

DAS  
6  
9-89

13/12/16

3

100

\*100\*

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy blue file & type labels as per PPP D205-523-013, CHG 002

110

Pick Kit

0.00

\*110\*

Packaging

Memo

0.00

Packaging

3

DAS  
33  
9-89

13-11-26

120

QC4- 100% Inspect kits for completeness

0.00

\*120\*

QC

Memo

0.00

Quality Control

DAS  
6  
9-89

13/12/16

3

DAS  
25  
9-89

# Work Order ID 109683

\*109683\*

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November-25-13 1:00:30 PM

Item ID: D205-523-013

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Item Name: Heli-Rappel 500 lbs

Stop \*NS2\*

Start Date: 11/25/13 Start Qty: 3.00

\*3\*

Cust Item ID:

Required Date: 11/26/13 Req'd Qty: 3.00

\*3\*

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description   | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code      | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--|----------------------|---------|--------|-------------------|---------------|---------------|------------------|----------------|
| 130                            |  | 0.00                 |         |        | DAS<br>6<br>9-89  |               |               |                  |                |
| *130*                          | Packaging  |                      |         |        |                   |               | 13-12-6       |                  |                |
| Packaging                      | Memo   | 0.00                 |         |        |                   |               |               |                  |                |
| Packaging                      | Package as per PPP D205-523-013<br>StockLocation: <u>022</u><br>Rev.D. | Identify and         |         |        | DAS<br>28<br>9-89 |               |               |                  |                |
| 140                            |  | 0.00                 |         |        |                   |               |               |                  |                |
| *140*                          | QC21- Final Inspection - Work Order Release                            |                      |         |        |                   |               |               |                  |                |
| QC                             | Memo   | 0.00                 |         |        |                   |               |               |                  |                |
| Quality Control                |  |                      |         |        |                   |               |               |                  |                |

Rm 13/12/09. / DJ

13-12-6

# Picklist Print

November-25-13 1:00:29 PM

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Work Order ID: 109683

Parent Item: D205-523-013

Parent Item Name: Heli-Rappel 500 lbs

Start Date: 11/25/13

Required Date: 11/26/13

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP B02.04.04Updated Drawing and Added Inspection Level 21SM

| Component Item ID/<br>Item Name           | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand  | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|-----------------|-------------|--------------|---------------|----------------|--------|
| <b>D205-523-043</b><br>Slide Bar Assembly |                        | Manufactured  | No          |                     |                  | 110             | Each               | 1.0000          |             |              |               |                |        |
| DAS<br>6<br>9-89                          |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|   |                        |               |             | ST198               |                  | 1               |                    |                 |             |              |               |                |        |
|   |                        |               |             | 98282               |                  | 1               |                    |                 |             |              |               |                |        |
|   |                        |               |             |                     |                  |                 |                    |                 |             |              |               |                |        |
| <b>D2224</b><br>Rappel Anchor Assembly    |                        | Manufactured  | No          |                     |                  | 110             | Each               | 6.0000          |             |              |               |                |        |
| DAS<br>6<br>9-89                          |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|   |                        |               |             | ST007               |                  | 6               |                    |                 |             |              |               |                |        |
|   |                        |               |             | 100345              |                  | 1               |                    |                 |             |              |               |                |        |
|   |                        |               |             | 102842              |                  | 5               |                    |                 |             |              |               |                |        |
| <b>D2229</b><br>Doubler                   |                        | Manufactured  | No          |                     |                  | 110             | Each               | 16.0000         |             |              |               |                |        |
| DAS<br>6<br>9-89                          |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|   |                        |               |             | ST007               |                  | 16              |                    |                 |             |              |               |                |        |
|   |                        |               |             | 100319              |                  | 15              |                    |                 |             |              |               |                |        |
|   |                        |               |             | 98309               |                  | 1               |                    |                 |             |              |               |                |        |
| <b>ANS-14A</b><br>Bolt                    |                        | Purchased     | No          |                     |                  | 110             | Each               | 17.0000         |             |              |               |                |        |
| DAS<br>6<br>9-89                          |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|   |                        |               |             | ST362               |                  | 17              |                    |                 |             |              |               |                |        |
|   |                        |               |             | 122416              |                  | 3               |                    |                 |             |              |               |                |        |
|   |                        |               |             | M125716             |                  | 14              |                    |                 |             |              |               |                |        |
| <b>MS2104215</b><br>Nut                   |                        | Purchased     | No          |                     |                  | 110             | Each               | 948.0000        |             |              |               |                |        |
| DAS<br>6<br>9-89                          |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|   |                        |               |             | st507               |                  | 448             |                    |                 |             |              |               |                |        |
|   |                        |               |             | 125535              |                  | 448             |                    |                 |             |              |               |                |        |
|   |                        |               |             | ST509               |                  | 500             |                    |                 |             |              |               |                |        |
|   |                        |               |             | m127304             |                  | 500             |                    |                 |             |              |               |                |        |

# Picklist Print

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Page 2

Work Order ID: 109683

Parent Item: D205-523-013

Start Date: 11/25/13

Required Date: 11/26/13

Parent Item Name: Heli-Rappel 500 lbs

Start Qty: 3.00

Required Qty: 3.00

NAS1149D0563J

Purchased

No

110

Each

4,359.0000

8

24

DAS

33

9-89

13-11-26

Washer

Location

Loc Qty

Loc Code

ST294

180

122452

91

123248

42

123355

12

m125807

35

ST510a

4179

m126319

4179

126319

DAS

28

9-89

DAS  
6  
9-89



13/12/06

DAS  
6  
9-89

## 4. WEIGHT AND BALANCE

| Installation | Weight            | LATERAL              |                             | LONGITUDINAL       |                          |
|--------------|-------------------|----------------------|-----------------------------|--------------------|--------------------------|
|              |                   | Arm                  | Moment                      | Arm                | Moment                   |
| D205-523-013 | 3.5 lb<br>1.59 kg | ±34.5 in<br>±0.876 m | ±120.75 in-lb<br>±1.39 m-kG | 116.8 in<br>2.97 m | 408.8 in-lb<br>4.72 m-kG |

## 5. PARTS LIST

| <del>-013</del> | -043 | Part No.     | Description               |
|-----------------|------|--------------|---------------------------|
| <del>X</del>    |      | D205-523-013 | HELI-RAPPEL™ INSTALLATION |
| <del>1</del>    | X    | D205-523-043 | SLIDE BAR ASSEMBLY        |
|                 | 1    | D3011-1      | RAPPEL SLIDE BAR          |
|                 | 2    | 33116        | STUD FITTING              |
|                 | 2    | MS21042L6    | NUT (OR MS21042-6)        |
|                 | 2    | AN960JD616   | WASHER                    |
|                 | 2    | D3012-1      | DECAL                     |
|                 | 2    | D3012-3      | DECAL                     |
|                 | 2    | D3012-5      | DECAL                     |
| <del>1</del>    |      | D2224        | RAPPEL ANCHOR             |
| <del>2</del>    |      | D2229        | DOUBLER                   |
| <del>4</del>    |      | AN5-14A      | BOLT                      |
| <del>8</del>    |      | AN960JD516   | WASHER                    |
| <del>4</del>    |      | MS21042L5    | NUT (OR MS21042-5)        |

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Revision: F

Date: 01.03.29

## DART SERVICE INSTRUCTION

### PURPOSE:

To provide instructions that allow replacement of current decals with decals in Portuguese (to be used on Brazilian registered aircraft).

### CHANGE:

When the DART D205-523-013 *HELI-RAPPEL*™ is installed on a Brazilian registered aircraft, replace the D3012-X decals with the equivalent D4213-X decals per the following table. Customers who require the Portuguese decals may procure the DSI-9534-011 kit from DART. Additionally, the DSI-9534-013 300-Hour Inspection Kit includes Portuguese decals and is available as an alternative to the D205-523-023 kit.

| QTY<br>-011 | QTY<br>-013 | PART NUMBER   | DESCRIPTION                         | REPLACES     |
|-------------|-------------|---------------|-------------------------------------|--------------|
| ✗           |             | DSI-9534-011  | DECALS, PORTUGUESE                  | N/A          |
|             | ✗           | DSI-9534-013  | 300-HOUR INSPECTION KIT, PORTUGUESE | D205-523-023 |
| 2           | 2           | D4213-1       | DECAL                               | D3012-1      |
| 2           | 2           | D4213-3       | DECAL                               | D3012-3      |
| 2           | 2           | D4213-5       | DECAL                               | D3012-5      |
|             | 2           | NAS1149D0663J | WASHER (OR AN960JD616)              | N/A          |
|             | 2           | MS21042L6     | NUT (OR MS21042-6)                  | N/A          |

Place decals as shown in Figure 25-3 of ICA-D205-523 Chapter 25 using the replacement part numbers.

|            |                    |  |              |
|------------|--------------------|--|--------------|
| A          | NEW ISSUE          | CP   | 10.10.04     |
| REV.       | DESCRIPTION        | BY   | DATE         |
| DESIGN     | <i>g</i>           | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA   |              |
| DRAWN      | <i>g</i>           |  |              |
| CHECKED    | <i>fl.</i>         | DRAWING NO.  | REV. A       |
| MFG. APPR. | N/A                | DSI 9534   | SHEET 1 OF 1 |
| APPROVED   | <i>[Signature]</i> | TITLE  | SCALE        |
| DE APPR.   | <i>[Signature]</i> | DECALS (PORTUGUESE)  | NTS          |
| DATE       | 10.10.04           | <small>COPYRIGHT © 2010 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

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Page 1

November-25-13 1:00:30 PM

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Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Heli-Rappel 500 lbs

Start Date: 11/25/13 Start Qty: 3.00

\*3\*

Cust Item ID:

Required Date: 11/26/13 Req'd Qty: 3.00

\*3\*

Customer:

Reference:

Approvals: Process Plan 

Date:

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description   | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| <b>Draw Nbr</b>                | <b>Revision Nbr</b>  |                      |         |        |              |               |               |                  |                |
| DSI9301                        | Rev A  |                      |         |        |              |               |               |                  |                |
| 100                            |  | 0.00                 |         |        |              |               |               |                  |                |
| *100*                          | DOCUMENT CONTROL   |                      |         |        |              |               |               |                  |                |
| DC                             | Memo   | 0.00                 |         |        |              |               |               |                  |                |
| Document Control               | Photocopy blue file & type labels as per PPP D205-523-013, CHG 002 |                      |         |        |              |               |               |                  |                |
| 110                            | Pick Kit   | 0.00                 |         |        |              |               |               |                  |                |
| *110*                          |  |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo   | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      |  |                      |         |        |              |               |               |                  |                |
| 120                            | QC4- 100% Inspect kits for completeness                            | 0.00                 |         |        |              |               |               |                  |                |
| *120*                          |  |                      |         |        |              |               |               |                  |                |
| QC                             | Memo   | 0.00                 |         |        |              |               |               |                  |                |
| Quality Control                |  |                      |         |        |              |               |               |                  |                |

MLJ 13-11-26

3